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PASSWORD:
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NEWS 3 May 18 Variable SDI Frequencies Now Available in EMBAL

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FILE 'HOME' ENTERED AT 08:10:37 ON 04 JUN 1998

=> fil req

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.15	0.15

FILE 'REGISTRY' ENTERED AT 08:10:44 ON 04 JUN 1998  
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STRUCTURE FILE UPDATES: 30 MAY 98 HIGHEST RN 206111-35-5  
DICTIONARY FILE UPDATES: 3 JUN 98 HIGHEST RN 206111-35-5

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 14, 1998

Please note that search-term pricing does apply when conducting SmartSELECT searches.

=> ...Testing the current file... screen

ENTER SCREEN EXPRESSION OR (END) :end

=> screen 1006 AND 2076

L1 SCREEN CREATED

=>

Uploading c:\stnexp4\queries\cl41.str

L2 STRUCTURE UPLOADED

=> que L2 AND L1

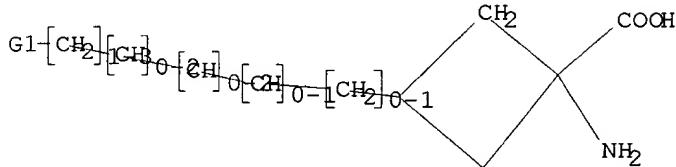
L3 QUE L2 AND L1

=> d

L3 HAS NO ANSWERS

L1 SCR 1006 AND 2076

L2 STR



G1 S,NH

Structure attributes must be viewed using STN Express query preparation.  
L3 QUE ABB=ON PLU=ON L2 AND L1

=> s 13

SAMPLE SEARCH INITIATED 08:11:10  
SAMPLE SCREEN SEARCH COMPLETED - 134 TO ITERATE  
100.0% PROCESSED 134 ITERATIONS 0 ANSWERS  
SEARCH TIME: 00.00.03

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 1986 TO 3374  
PROJECTED ANSWERS: 0 TO 0

L4 0 SEA SSS SAM L2 AND L1

=> s 13 full

FULL SEARCH INITIATED 08:11:21  
FULL SCREEN SEARCH COMPLETED - 2339 TO ITERATE  
100.0% PROCESSED 2339 ITERATIONS 9 ANSWERS  
SEARCH TIME: 00.00.05

L5 9 SEA SSS FUL L2 AND L1

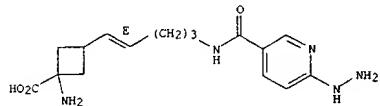
=> d 1-9

08/744,444

Page 3

L5 ANSWER 1 OF 9 REGISTRY COPYRIGHT 1998 ACS  
RN 191166-97-9 REGISTRY  
CN Cyclobutanecarboxylic acid, 1-amino-3-[5-[(6-hydrazino-3-pyridinyl)carbonyl]amino]-1-pentenyl-, (E)- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C16 H23 N5 O3  
SR CA  
LC STN Files: CA, CAPLUS

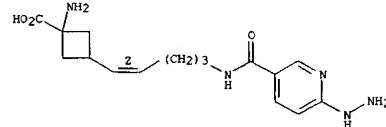
Double bond geometry as shown.



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1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

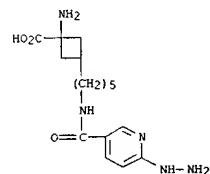
L5 ANSWER 2 OF 9 REGISTRY COPYRIGHT 1998 ACS  
RN 191166-96-8 REGISTRY  
CN Cyclobutanecarboxylic acid, 1-amino-3-[5-[(6-hydrazino-3-pyridinyl)carbonyl]amino]-1-pentenyl-, (Z)- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C16 H23 N5 O3  
SR CA  
LC STN Files: CA, CAPLUS

Double bond geometry as shown.



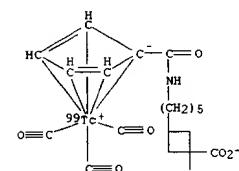
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1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L5 ANSWER 3 OF 9 REGISTRY COPYRIGHT 1998 ACS  
RN 191111-52-1 REGISTRY  
CN Cyclobutanecarboxylic acid, 1-amino-3-[5-[(6-hydrazino-3-pyridinyl)carbonyl]amino]pentyl- (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C16 H25 N5 O3  
SR CA  
LC STN Files: CA, CAPLUS



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1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

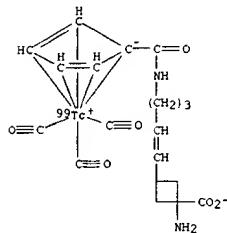
L5 ANSWER 4 OF 9 REGISTRY COPYRIGHT 1998 ACS  
RN 191111-50-9 REGISTRY  
CN Technetate(1-)-99Tc, [(1,2,3,4,5-eta.)-1-[[{[5-(3-amino-3-carboxylatocyclobutyl)pentyl]amino}carbonyl]-2,4-cyclopentadien-1-yl]tricarbonyl-, hydrogen (9CI) (CA INDEX NAME)  
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CI CCS  
SR CA  
LC STN Files: CA, CAPLUS



● H<sup>+</sup>

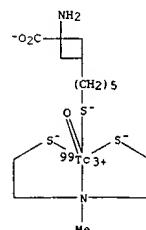
1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L5 ANSWER 5 OF 9 REGISTRY COPYRIGHT 1998 ACS  
RN 191111-48-5 REGISTRY  
CN Technetate(1-)-99Tc, [(1,2,3,4,5-.eta.)-1-[[{5-(3-amino-3-carboxylatocyclobutyl)-4-pentenyl]amino}carbonyl]-2,4-cyclopentadien-1-yl]tricarbonyl-, hydrogen (9CI) (CA INDEX NAME)  
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CI CCS  
SR CA  
LC STN Files: CA, CAPLUS

● H<sup>+</sup>

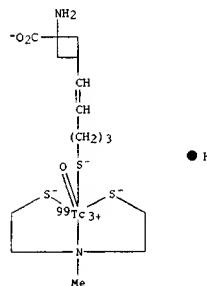
1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L5 ANSWER 6 OF 9 REGISTRY COPYRIGHT 1998 ACS  
RN 191111-42-9 REGISTRY  
CN Technetate(1-)-99Tc, [{1-amino-3-[5-(mercaptop-.kappa.S)-1-pentenyl]cyclobutanecarboxylato(2-)}[{2,2'-(methylenimino-.kappa.N)bis[ethanethiolato-.kappa.S]}(2-)]oxo-, hydrogen (9CI) (CA INDEX NAME)  
MF C15 H20 N2 O3 S3 Tc . H  
CI CCS  
SR CA  
LC STN Files: CA, CAPLUS

● H<sup>+</sup>

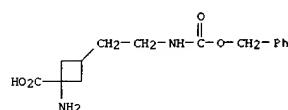
1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L5 ANSWER 7 OF 9 REGISTRY COPYRIGHT 1998 ACS  
RN 191111-39-4 REGISTRY  
CN Technetate(1-)-99Tc, [{1-amino-3-[5-(mercaptop-.kappa.S)-1-pentenyl]cyclobutanecarboxylato(2-)}[{2,2'-(methylenimino-.kappa.N)bis[ethanethiolato-.kappa.S]}(2-)]oxo-, hydrogen (9CI) (CA INDEX NAME)  
MF C15 H26 N2 O3 S3 Tc . H  
CI CCS  
SR CA  
LC STN Files: CA, CAPLUS



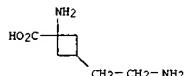
1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L5 ANSWER 8 OF 9 REGISTRY COPYRIGHT 1998 ACS  
RN 184103-64-8 REGISTRY  
CN Cyclobutanecarboxylic acid, 1-amino-3-[2-[(phenylmethoxy)carbonyl]amino]ethyl- (9CI) (CA INDEX NAME)  
PS 3D CONCORD  
MF C15 H20 N2 O4  
SR CA  
LC STN Files: CA, CAPLUS, TOXLIT



1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

LS ANSWER 9 OF 9 REGISTRY COPYRIGHT 1998 ACS  
RN 184103-62-6 REGISTRY  
CN Cyclobutanecarboxylic acid, 1-amino-3-(2-aminoethyl)- (9CI) (CA  
INDEX NAME)  
FS 3D CONCORD  
MF C7 H14 N2 O2  
SR CA  
LC STM Files: CA, CAPLUS, TOXSLIT



1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> fil biosis medline uspatful embase caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	126.94	127.09

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(FILE 'HOME' ENTERED AT 08:10:37 ON 04 JUN 1998)

FILE 'REGISTRY' ENTERED AT 08:10:44 ON 04 JUN 1998  
L1 SCREEN 1006 AND 2076  
L2 STRUCTURE UPLOADED  
L3 QUE L2 AND L1  
L4 0 S L3  
L5 9 S L3 FULL

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08:14:09 ON 04 JUN 1998

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L6 2 L5

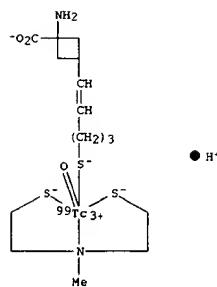
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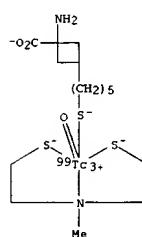
L6 ANSWER 1 OF 2 CAPLUS COPYRIGHT 1998 ACS  
 ACCESSION NUMBER: 1997436060 CAPLUS  
 DOCUMENT NUMBER: 127:51001  
 TITLE: Amino acid analogs for tumor imaging  
 INVENTOR(S): Goodman, Mark M.; Shoup, Timothy  
 Emory University, USA  
 PATENT ASSIGNEE(S): PCT Int. Appl., 81 pp.  
 SOURCE: CODEN: PIXXD2

NUMBER DATE  
 -----  
 PATENT INFORMATION: WO 9717092 A1 970515  
 DESIGNATED STATES: W: AU, CA, JP  
 RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE,  
 IT, LU, MC, NL, PT, SE  
 APPLICATION INFORMATION: WO 96-US18455 961108  
 PRIORITY APPLN. INFO.: US 95-554906 951109  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 OTHER SOURCE(S): MARPAT 127:51001  
 AB Amino acid analogs R2C<sub>y</sub>H<sub>x</sub>C(CH<sub>2</sub>R)<sub>z</sub>(NH<sub>2</sub>)CO<sub>2</sub>H [R<sub>1</sub> = X (F, I, Br, or their radioisotopes, or At), XCH:CH, haloalkyl, or certain 99mTc-complex contg. residues; R<sub>2</sub> = H, haloalkyl, or certain 99mTc-complex contg. residues; y = 1, 2; z = 1-4] were prep'd. for use in tumor imaging by positron emission tomog. An esp. preferred amino acid compd. is [<sup>18</sup>F]-1-amino-3-fluorocyclobutane-1-carboxylic acid (FACBC), which was prep'd. from benzyl chloride, epichlorohydrin, and di-Et malonate. The distribution of radioactivity in tumor bearing rats was studied using FACBC.  
 IT 191111-39-4P 191111-42-9P 191111-48-5P  
 191111-50-9P 191111-52-1DP, complexes with  
 technetium-99 191166-96-BDP, complexes with technetium-99  
 191166-97-9DP, complexes with technetium-99  
 RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (amino acid analogs for tumor imaging)  
 RN 191111-39-4 CAPLUS  
 CN Technetate(1-)-99Tc, [(1-amino-3-[5-(mercapto-.kappa.S)-1-pentenyl)cyclobutanecarboxylato(2-)][[2,2'-(methylenimino-.kappa.N)bis[ethanethiolato-.kappa.S]](2-)oxo-, hydrogen (9CI) (CA INDEX NAME)

L6 ANSWER 1 OF 2 CAPLUS COPYRIGHT 1998 ACS (Continued)



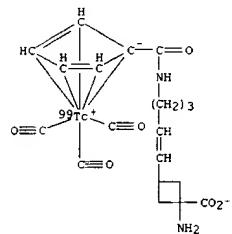
RN 191111-42-9 CAPLUS  
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● H<sup>+</sup>

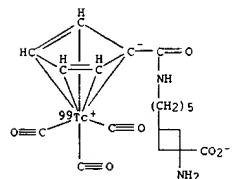
L6 ANSWER 1 OF 2 CAPLUS COPYRIGHT 1998 ACS (Continued)

RN 191111-48-5 CAPLUS  
 CN Technetate(1-)-99Tc, [(1,2,3,4,5-.eta.)-1-[[5-(3-amino-3-carboxylatocyclobutyl)-4-pentenyl]amino]carbonyl]-2,4-cyclopentadien-1-yl]tricarbonyl-, hydrogen (9CI) (CA INDEX NAME)



● H<sup>+</sup>

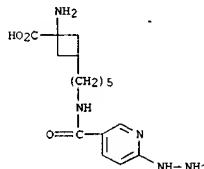
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● H<sup>+</sup>

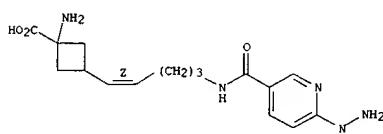
RN 191111-52-1 CAPLUS

L6 ANSWER 1 OF 2 CAPLUS COPYRIGHT 1998 ACS (Continued)  
 CN Cyclobutanecarboxylic acid, 1-amino-3-[5-[(6-hydrazino-3-pyridinyl)carbonyl]amino]pentyl- (9CI) (CA INDEX NAME)



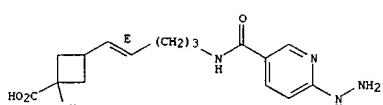
RN 191166-96-8 CAPLUS  
 CN Cyclobutanecarboxylic acid, 1-amino-3-[5-[(6-hydrazino-3-pyridinyl)carbonyl]amino]-1-pentenyl-, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 191166-97-9 CAPLUS  
 CN Cyclobutanecarboxylic acid, 1-amino-3-[5-[(6-hydrazino-3-pyridinyl)carbonyl]amino]-1-pentenyl-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L6 ANSWER 2 OF 2 CAPLUS COPYRIGHT 1998 ACS  
 ACCESSION NUMBER: 1996:656704 CAPLUS  
 DOCUMENT NUMBER: 126:14319  
 TITLE: 1-Aminocyclobutanecarboxylic Acid Derivatives as  
 Novel Structural Elements in Bioactive Peptides:  
 Application to Tuftsin Analogs

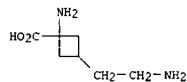
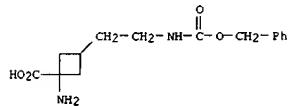
AUTHOR(S): Gershonov, Eytan; Granot, Ruth; Tzeboval,  
 Esther; Gaoni, Yehiel; Fridkin, Mati  
 CORPORATE SOURCE: Department of Organic Chemistry, Weizmann  
 Institute of Science, Rehovot, 76100, Israel  
 SOURCE: J. Med. Chem. (1996), 39(24), 4833-4843  
 CODEN: JMCMAR; ISSN: 0022-2623  
 PUBLISHER: American Chemical Society  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CJACS-IMAGE; CJACS

AB Four novel 2,4-methano amino acids (MAAs, 1-aminocyclobutane-1-carboxylic acids) were synthesized. These include the basic MAA analogs of lysine, ornithine, and arginine and the neutral methanovaline, related to proline. The above MAAs, as well as the MAA analog of homothreonine, were incorporated into the peptide chain of the immunomodulatory peptide tuftsin, Thc-Lys-Pro-Arg, known to enhance several biol. activities mediated by phagocytic cells. The synthetic methano tuftsin analogs were assayed for their ability to stimulate interleukin-6 (IL-6) secretion by mouse peritoneal macrophages and for their stability in human serum toward enzymic degrdn. It was found that, at 2 times, 10<sup>-7</sup> M, [Mthr]tuftsin and an isomer of [MVal]tuftsin were considerably more active than the parent peptide in augmentation of cytokine release. [MOrn]Tuftsin was equally potent. The analogs [Mthr]tuftsin and [MOrn]tuftsin, both pertaining to the proteolytically sensitive Thc-Lys bond of tuftsin, exhibited high resistance to enzymic hydrolysis as compared to tuftsin. Using specific rabbit anti-tuftsin antibodies in a competitive ELISA revealed that none of the MAA analogs can cross-react with tuftsin. It may indicate that the peptides assume global structures different than that of tuftsin.

IT 184103-62-6P 184103-64-BP  
 RL: RCT (Reactant); SPA (Synthetic preparation); PREP (Preparation)  
 (intermediate; prepns. and biol. activity of  
 aminocyclobutanecarboxylic acid derivs. of tuftsin)

RN 184103-62-6 CAPLUS  
 CN Cyclobutanecarboxylic acid, 1-amino-3-(2-aminoethyl)- (9CI) (CA INDEX NAME)

L6 ANSWER 2 OF 2 CAPLUS COPYRIGHT 1998 ACS (Continued)  
 RN 184103-64-8 CAPLUS  
 CN Cyclobutanecarboxylic acid, 1-amino-3-[2-[(phenylmethoxy)carbonyl]amino]ethyl- (9CI) (CA INDEX NAME)



=> log y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	10.85	137.94
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-1.03	-1.03

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